

Active Recombinant Mouse Interleukin 12b

Cat. No. II12b-643M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL12b protein was expressed in Spodoptera frugiperda. Met23-Ser335.
Species	Mouse
Source	S. frugiperda
Protein Length	23-335 a.a.
Description	IL12b is a pleiotropic cytokine originally identified in the medium of activated human B lymphoblastoid cell lines. IL12b has multiple effects on T cells and NK cells and is a key mediator in the development of Th1 cells. IL12b is a heterodimeric cytokine containing two disulfide-linked subunits, p35 and p40.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Met23
Molecular Weight	35.8 kDa (monomer)
Activity	Measured by its ability to inhibit the IL12b dependent proliferation of mouse splenocytes activated with PHA and IL-2. The ED50 for this effect is typically 1-3 ng/mL in the presence of 0.3 ng/mL of mouse IL12b.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.

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Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 10µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IL12b interleukin 12b [Mus musculus]
Official Symbol	IL12b
Synonyms	IL12b; interleukin12b; p40; IL-12b; IL12p40; IL-12p40; interleukin-12 subunit beta; CLMF p40; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit
Gene ID	16160
mRNA Refseq	NM_008352
Protein Refseq	NP_032378
UniProt ID	P43432
Chromosome Location	11
Pathway	African trypanosomiasis; Allograft rejection; Amoebiasis; Cytokine-cytokine

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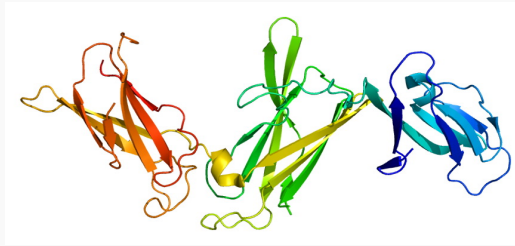
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receptorinteraction; Herpes simplex infection; Influenza A; Jak-STAT signalingpathway; Legionellosis; Leishmaniasis; Measles; Pertussis; RIG-I-likereceptor signaling pathway; Toll-like receptor signaling pathway; Toxoplasmosis;Type I diabetes mellitus

Function

contributes_tocytokine activity; cytokine receptor activity; contributes_to cytokinereceptor binding; identical protein binding; interleukin-12 alpha subunitbinding; protein binding; protein heterodimerization activity

PDBrendering based on 1f42.

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